



(1596-00008)

88083849

Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

August 21, 1996

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

Subject: **Section 304 Reports**

Dear Sir:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form".

If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,

A. S. Abay

A. S. Abay

c: JAWenker - UCP
Local Emergency Planning Committee (LEPC)
National Response Center (NRC)
Mr. David Howecamp - USEPA

Enclosure

DAB/rec
File: 34040-104
q:\dab\mtbe_304.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
6451 Rosedale Highway
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released:

Methyl tert-butyl ether CAS# 1634-04-4

Extremely Hazardous:

Yes

Physical State Stored:

- ☐ Solid
☒ Liquid
☐ Gas

Physical State Released:

- ☐ Solid
☒ Liquid
☐ Gas

Quantity Released:

14300 ☒ lbs.
☐ gal.
☐ cu. ft.

Environmental Contamination:

- ☐ Air
☐ Water
☒ Ground
☐ Other

Time and Date of Release:

07/23/96 03:20 PM

Duration of Release:

0 Days 4 Hours 40 Min.

Time OES Notified:

07/23/96 04:45 PM

OES Control Number:

014788

Time NRC Notified:

7/23/96 4:40 pm

NRC Control Number:

353088

ACTIONS TAKEN

At approximately 3:20pm, a failure occurred at the MTBE railcar unloading rack. The packing blew out when the 3 inch ball valve on the railcar was opened. Railcar NATX 29120 released MTBE liquid as the pressure in the railcar pushed MTBE up the drain pipe and out through the valve body. The operator stopped unloading MTBE, evacuated the unloading rack and sounded the alarm.

The Bakersfield Plant's response team, along with Kern County firefighters and the hazardous materials response team, responded to the leak. They used water and foam to reduce the risk of fire. No fire resulted from the leak. The Hazmat teams sealed the leaking valve after relieving the pressure on the railcar.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Prolonged overexposure may cause coughing, shortness of breath, dizziness and intoxication. May produce skin or eye irritation. There were no known or anticipated health effects since no individuals were exposed.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Medical attention was not required since no individuals were exposed.

COMMENTS

ARCO Chemical, the MTBE seller, contracts the railcars. It is Texaco's belief that maintenance on railcar NATX 29120 was inadequate to prevent this incident. The operator reported that the valve threads were unusually rusty.

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type)

Linda Davis

Signature of Reporting Facility Representative

Linda Davis

Date

8/21/96



Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

H-8-304
A-3

September 3, 1996

RECEIVED

SEP 06 1996

Air & Toxics Division
U.S. EPA, Region 9

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832


Subject: **Section 304 Reports**

Dear Sir:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form".

If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,


A. S. Abay

c: JAWenker - UCP
Local Emergency Planning Committee (LEPC)
National Response Center (NRC)
Mr. David Howecamp - USEPA

Enclosure

DAB/rec
File: 34040-104
q:\dab\pwr_304.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:
Texaco Refining and Marketing Inc.
Bakersfield Plant
6451 Rosedale Highway
Bakersfield, CA 93308

Facility Emergency Contact:
Ms. Anita Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released:

Nitrogen Dioxide CAS# 10102-44-0

Physical State Stored:

- ☐ Solid
☐ Liquid
☒ Gas

Physical State Released:

- ☐ Solid
☐ Liquid
☒ Gas

Extremely Hazardous:

Yes

Quantity Released:

1200 ☒ lbs.
☐ gal.
☐ cu. ft.

Environmental Contamination:

- ☒ Air
☐ Water
☐ Ground
☐ Other

Time and Date of Release:

07/30/96 09:50 AM

Duration of Release:

0 Days 0 Hours 25 Min.

Time OES Notified:

07/30/96 11:30 AM

OES Control Number:

014882

Time NRC Notified:

07/30/96 11:29 AM

NRC Control Number:

354043

ACTIONS TAKEN

Ammonia was released to the flare as a result of a power outage. All of the ammonia was burned by the flare and converted to NOx. When power was restored, ammonia was no longer sent to the flare.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Exposure to high concentrations may result in pulmonary problems. Texaco has no information to indicate that individuals were exposed. There were no known health effects from this release.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Texaco has no information to indicate that medical attention was required.

COMMENTS

A breakdown report was faxed to the SJVUAPCD at 9:45 AM (7/30/96).

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type)

Anita M. Burke for TRM1

Signature of Reporting Facility Representative

Anita M. Burke

Date

7.3.96

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
6451 Rosedale Highway
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released:

Sulfur Dioxide CAS # 7446-09-5

Physical State Stored:

- ☐ Solid
☐ Liquid
☒ Gas

Physical State Released:

- ☐ Solid
☐ Liquid
☒ Gas

Extremely Hazardous:

Yes

Quantity Released:

- 1800 ☒ lbs.
☐ gal.
☐ cu. ft.

Environmental Contamination:

- ☒ Air
☐ Water
☐ Ground
☐ Other

Time and Date of Release:

07/30/96 09:50 AM

Duration of Release:

0 Days 0 Hours 25 Min.

Time OES Notified:

07/30/96 11:30 AM

OES Control Number:

014882

Time NRC Notified:

NA

NRC Control Number:

ACTIONS TAKEN

Acid gas was released to the flare as a result of a power outage. When power was restored, acid gas was returned to the sulfur recovery unit.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Exposure to high concentrations may result in pulmonary edema. Texaco has no information to indicate that individuals were exposed. There were no known health effects from this release.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Texaco has no information to indicate that medical attention was required.

COMMENTS

Breakdown report was faxed to the SJVUAPCD at 9:45 AM (7/30/96).

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type)

ANITA M. BURKE for TRM 1

Signature of Reporting Facility Representative

Anita M. Burke for TRM 1

Date 9.3.96



Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

A-3

RECEIVED

SEP 13 1996
Air & Toxics Division
U.S. EPA, Region 9

September 6, 1996

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

Subject: Section 304 Reports

Dear Sir:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form".

If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,

A. S. Abay

c: JAWenker - UCP
Local Emergency Planning Committee (LEPC)
National Response Center (NRC)
Mr. David Howecamp - USEPA

Enclosure

DAB/rec
File: 34040-104
q:\dab\pwr_304.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:
Texaco Refining and Marketing Inc.
Bakersfield Plant
6451 Rosedale Highway
Bakersfield, CA 93308

Facility Emergency Contact:
Ms. Anita Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released:

Nitrogen Dioxide CAS# 10102-44-0

Physical State Stored:

- ☐ Solid
☐ Liquid
☒ Gas

Physical State Released:

- ☐ Solid
☐ Liquid
☒ Gas

Extremely Hazardous:

Yes

Quantity Released:

- 1217 ☒ lbs.
☐ gal.
☐ cu. ft.

Environmental Contamination:

- ☒ Air
☐ Water
☐ Ground
☐ Other

Time and Date of Release:

08/10/96 04:00 PM

Duration of Release:

0 Days 0 Hours 5 Min.

Time OES Notified:

08/12/96 03:30 PM

OES Control Number:

015081

Time NRC Notified:

8/10/96 5:35 pm

NRC Control Number:

356161

ACTIONS TAKEN

Ammonia was released to the flare as the result of a power outage. All of the ammonia was burned by the flare and converted to NOx. When power was restored, ammonia was no longer sent to the flare.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Exposure to high concentrations may result in pulmonary problems. Texaco has no information to indicate that individuals were exposed. There were no known health effects from this release.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Texaco has no information to indicate that medical attention was required.

COMMENTS

A breakdown report was submitted to the SJVUAPCD.

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type)

ANITA M. BURKE, for TRM-BKP

Signature of Reporting Facility Representative

Anita M. Burke

Date 9-7-96

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:
Texaco Refining and Marketing Inc.
Bakersfield Plant
6451 Rosedale Highway
Bakersfield, CA 93308

Facility Emergency Contact:
Ms. Anita Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released:

Sulfur Dioxide CAS # 7446-09-5

Physical State Stored:

- ☐ Solid
☐ Liquid
☒ Gas

Physical State Released:

- ☐ Solid
☐ Liquid
☒ Gas

Extremely Hazardous:

Yes

Quantity Released:

3918 ☒ lbs.
☐ gal.
☐ cu. ft.

Environmental Contamination:

- ☒ Air
☐ Water
☐ Ground
☐ Other

Time and Date of Release:

08/10/96 04:00 PM

Duration of Release:

0 Days 0 Hours 5 Min.

Time OES Notified:

08/12/96 03:30 PM

OES Control Number:

015081

Time NRC Notified:

NA

NRC Control Number:

NA

ACTIONS TAKEN

A power outage caused the shutdown of the sulfur recovery units. Acid gas was flared resulting in excess SO₂ emissions from the flare. The unit was restarted once the power was restored.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Exposure to high concentrations may result in pulmonary edema. Texaco has no information to indicate that individuals were exposed. There were no known health effects from this release.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Texaco has no information to indicate that medical attention was not required.

COMMENTS

Breakdown report was submitted to the SJVUAPCD.

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type)

Anita M. Burke for TRMI-BICP

Signature of Reporting Facility Representative

Anita M. Burke for TRMI-BICP

Date 9.7.96



Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

A-47

September 24, 1996

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832


Subject: Section 304 Reports, OES Control # 015557

Dear Sir:

Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, in compliance with the Office of Emergency Services, is enclosing an "Emergency Release Follow-up Notice Reporting Form" pertaining to the September 12-13, 1996 reportable release of sulfur dioxide from the Area 1 SRU Incinerator.

If you have questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,


A. S. Abay

Enclosure
ASA/JTW/vesp

c: JAWenker - UCP
Kern County Environmental Health (LEPC)
Kern County Hazmat Response (RMP)
Mr. David Howecamp - USEPA
AMBurke, LGDavis, DABeck, JTWellspring, BkP

File: 34040-104
q:\jtw\0912_304.doc

10/1/96
Paula. 2D
believe this should
Go to Lauren V.
w/ EPCRA 312 Team
check w/ Charles
verify 78

Charles - 10-8
Does this go
to Lauren? I'm
finally digging down
in my mail this
week.
Paula
yes CSB 10/10 Sect
304

RECEIVED

SEP 30 1996

Air & Toxics Division
U.S. EPA, Region 9

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
6451 Rosedale Highway
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita M. Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released:

Sulfur Dioxide CAS # 7446-09-5

Physical State Stored:

<input type="checkbox"/>	Solid
<input type="checkbox"/>	Liquid
<input checked="" type="checkbox"/>	Gas

Physical State Released:

<input type="checkbox"/>	Solid
<input type="checkbox"/>	Liquid
<input checked="" type="checkbox"/>	Gas

Extremely Hazardous:

Yes

Quantity Released:

695	<input checked="" type="checkbox"/>	lbs.
	<input type="checkbox"/>	gal.
	<input type="checkbox"/>	cu. ft.

Environmental Contamination:

<input checked="" type="checkbox"/>	Air
<input type="checkbox"/>	Water
<input type="checkbox"/>	Ground
<input type="checkbox"/>	Other

Time and Date of Release:

09/12/96 12:00 AM

Duration of Release:

1 Days 4 Hours 0 Min.

Time OES Notified:

09/13/96 02:00 PM

OES Control Number:

015557

Time NRC Notified:

NA

NRC Control Number:

NA

ACTIONS TAKEN

Emissions were the result of planned shutdown of the Area 1 sulfur recovery unit to perform sulfur stripping activities necessary prior to replacement of catalyst. An air permit variance was obtained from the SJVUAPCD prior to performance of the work. The catalyst stripping phase of this work was completed at 4:00 AM on 09/13/96. The reportable quantity was exceeded due to the sum of excess (above permit limit) sulfur dioxide emissions during the 28 hour stripping process. Variance emission limits were not exceeded.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Vapor is irritating to eyes, nose and throat, and has an irritating odor. Exposure to high concentrations can result in pulmonary edema. TRMI has no information to indicate that any individuals were exposed to irritating concentrations as a result of this release.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Immediate respiratory attention. TRMI has no information to indicate that any individuals were exposed or required medical attention.

COMMENTS

Excess emissions reports have been submitted to the SJVUAPCD.

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type) Anita M. Burke for TRMI Bakersfield Plant

Signature of Reporting Facility Representative

Anita M. Burke for TRMI Bakersfield Plant

Date 9.24.96



Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

Certified Mail
P 878 313 429

December 4, 1996

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

Subject: Section 304 Reports, OES Control # 016681

Dear Sir:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form" pertaining to the November 26, 1996 reportable release of sulfur dioxide from the Area 3 Refinery Flare. This release was reported to the OES on 11/26/96.

If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,


A. S. Abay

Enclosure

c: Kern County Environmental Health (LEPC)
Kern County Hazmat Response (RMP)
National Response Center (NRC)
Ms. Julie Anderson c/o Lauren Volpini- USEPA
JAWenker - UCP
AMBurke, LGDavis, DABeck, JTWellspring, BkP

JTW/rec
File: 34040-104
q:\jtw\1126_304.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
3663 Gibson Street
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita M. Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released:

Sulfur Dioxide CAS # 7446-09-5

Physical State Stored:

<input type="checkbox"/>	Solid
<input type="checkbox"/>	Liquid
<input checked="" type="checkbox"/>	Gas

Physical State Released:

<input type="checkbox"/>	Solid
<input type="checkbox"/>	Liquid
<input checked="" type="checkbox"/>	Gas

Extremely Hazardous:

Yes

Quantity Released:

773	<input checked="" type="checkbox"/>	lbs.
	<input type="checkbox"/>	gal.
	<input type="checkbox"/>	cu. ft.

Environmental Contamination:

<input checked="" type="checkbox"/>	Air
<input type="checkbox"/>	Water
<input type="checkbox"/>	Ground
<input type="checkbox"/>	Other

Time and Date of Release:

11/26/96 09:14 AM

Duration of Release:

0 Days 0 Hours 26 Min.

Time OES Notified:

11/26/96 11:40 AM

OES Control Number:

016681

Time NRC Notified:

NA

NRC Control Number:

ACTIONS TAKEN

Acid Gas was routed to the flare from the SRU#2 as a result of an SRU shutdown. The SRU shut itself down due to a high temperature reading from a infrared temperature indicator. The temperature indicator malfunctioned. Once the temperature reading was determined to be erroneous, the temperature indicator was repaired and the SRU was immediately restarted.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Gas is irritating to the eyes, nose and throat, and has an irritating odor. Exposure to high concentrations can result in pulmonary edema. There were no known health effects resulting from this release. TRMI has no information to indicate that any individuals were exposed to irritating concentrations.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Give immediate respiratory attention. TRMI has no information to indicate that any individuals were exposed or required medical attention.

COMMENTS

A breakdown report was submitted to the SJVUAPCD. Marty Brownfield with Environmental Health was notified by phone at 12:00 PM. Dacia Young was the contact at COES.

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type) Anita M. Burke for TRMI Bakersfield Plant

Signature of Reporting Facility Representative Anita M. Burke for TRMI Bakersfield Plant

Date 12-4-96



Prey

Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

Certified Mail

P 878 313 406

RECEIVED

FEB 3 1997

Air & Toxics Division
U.S. EPA, Region 9

January 28, 1997

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

Subject: Section 304 Reports, OES Control No. 017188

To whom it may concern:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form" pertaining to the December 31, 1996 reportable release of sulfur dioxide from the Area 3 Flare.

If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,

AS Abay
A. S. Abay

Enclosure

c: JAWenker - UCP
Kern County Environmental Health (LEPC)
Kern County Hazmat Response (RMP)
Mr. David Howecamp - USEPA
AMBurke, LGDavis, DABeck, EXSekiguchi, BkP

EXS/rec
File: 34040-104
q:\exs\1231_304.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
3663 Gibson Street
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita M. Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released: Sulfur Dioxide CAS # 7446-09-5

Extremely Hazardous: Yes

Physical State Stored: Gas

Date/Time of Release: 12/31/96 02:40 PM

Quantity Released: 767.2 lbs.

Contamination Pathway: Air

Physical State Released: Gas

Duration of Release: 0 Days 0 Hours 28 Minutes

NOTIFICATIONS

Agency	Notification Date/Time	Control Number	Contact Person
National Response Center	NA	----	----
Office of Emergency Services	12/31/96 03:50 PM	017188	
Dept. of Environmental Health	12/31/96 03:50 PM	NA	Marty Brownfield

TRMI submitted a Breakdown Report to the SJVUAPCD: Yes

CAUSE OF RELEASE AND ACTIONS TAKEN

Power was lost to the sulfur recovery unit (SRU) burner management panel due to a false level indication in the boiler condenser. This caused the SRU to shut down and acid gas was sent to the flare.

The level indicator was calibrated, the taps were pumped, and the SRU was brought back up.

KNOWN OR ANTICIPATED HEALTH EFFECTS

SO₂ gas is irritating to the eyes, nose and throat, and has an irritating odor. Exposure to high concentrations can result in pulmonary edema. There were no known health effects resulting from this release. TRMI has no information to indicate that any individuals were exposed to irritating concentrations.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Give immediate respiratory attention. TRMI has no information to indicate that any individuals were exposed or required medical attention.

COMMENTS

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type) Anita M. Burke for TRMI Bakersfield Plant

Signature of Reporting Facility Representative Anita M. Burke for TRMI Bakersfield Plant

Date 1.28.97

**Estimation of SO₂ Emissions During Acid Gas Flaring Episode
12/31/96 Area 3 SRU Shutdown**

Flow to Flare:

$$V_{tf} = V_{pg} + V_{ag}$$

where:

V_{tf} = total flow rate, Mscf/hr

V_{pg} = pilot gas flow rate, Mscf/hr

V_{ag} = acid gas flow rate, Mscf/hr

Assumptions:

- $V_{pg} = 0.75$ Mscf/hr
- H₂S content of gas sent to flare is 802,000 ppmv
- All waste gas flow to flare is acid gas (worst case scenario)

$$\therefore V_{tf} = 11.484 \text{ Mscf/hr} + 0.75 \text{ Mscf/hr} = 12.234 \text{ Mscf/hr}$$

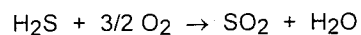
However, only considering acid gas flow to flare:

$$V_{tf} = V_{ag} = 11.484 \text{ Mscf/hr}$$

Molar H₂S rate of acid gas to flare:

$$\begin{aligned} n_{H_2S} &= (802,000 \text{ ft}^3/10^6 \text{ ft}^3)(11,484 \text{ ft}^3/\text{hr})(1 \text{ mole}/359 \text{ ft}^3)(1 \text{ hr}/60 \text{ min}) \\ n_{H_2S} &= 0.428 \text{ moles/min} \end{aligned}$$

Stoichiometric equation for the combustion of H₂S:



Therefore, from stoichiometry (1:1 H₂S:SO₂ ratio) and assuming complete combustion of H₂S, mass rate of SO₂ is:

$$m_{SO_2} = (0.428 \text{ moles H}_2\text{S/min})(1 \text{ mole SO}_2/1 \text{ mol H}_2\text{S})(64.1 \text{ lb SO}_2/\text{lbmol SO}_2)$$

$$\therefore m_{SO_2} = 27.4 \text{ lb/min}$$

$$\text{Total SO}_2 \text{ released during flaring episode} = 27.4 \text{ lb/min} \times 28 \text{ min} = 767.2 \text{ lb}$$

Waste gas minute by minute flow rate (mscfph) to Area 3 flare:

Date	Time hh:mm	Flow Rt. mscf/hr	Date	Time hh:mm	Flow Rt. mscf/hr
31-Dec-96	14:30	2.333	31-Dec-96	14:58	15.334
31-Dec-96	14:31	2.333	31-Dec-96	14:59	15.334
31-Dec-96	14:32	2.333	31-Dec-96	15:00	15.667
31-Dec-96	14:33	2.333	31-Dec-96	15:01	15.667
31-Dec-96	14:34	2.333	31-Dec-96	15:02	15.667
31-Dec-96	14:35	2.333	31-Dec-96	15:03	15.667
31-Dec-96	14:36	2.333	31-Dec-96	15:04	15.834
31-Dec-96	14:37	2.333	31-Dec-96	15:05	15.834
31-Dec-96	14:38	2.333	31-Dec-96	15:06	15.834
31-Dec-96	14:39	2.333	31-Dec-96	15:07	15.667
31-Dec-96	14:40	2.333	31-Dec-96	15:08	15.667
31-Dec-96	14:41	2.333	31-Dec-96	15:09	15.334
31-Dec-96	14:42	2.333	31-Dec-96	15:10	15.001
31-Dec-96	14:43	2.333	31-Dec-96	15:11	15.001
31-Dec-96	14:44	2.333	31-Dec-96	15:12	10.000
31-Dec-96	14:45	2.333	31-Dec-96	15:13	9.000
31-Dec-96	14:46	2.000	31-Dec-96	15:14	10.334
31-Dec-96	14:47	2.167	31-Dec-96	15:15	10.834
31-Dec-96	14:48	2.000	31-Dec-96	15:16	9.000
31-Dec-96	14:49	9.667	31-Dec-96	15:17	4.834
31-Dec-96	14:50	12.667	31-Dec-96	15:18	2.667
31-Dec-96	14:51	14.001	31-Dec-96	15:19	1.833
31-Dec-96	14:52	15.001	31-Dec-96	15:20	1.500
31-Dec-96	14:53	15.667	31-Dec-96	15:21	1.167
31-Dec-96	14:54	15.834	31-Dec-96	15:22	1.167
31-Dec-96	14:55	15.834	31-Dec-96	15:23	1.167
31-Dec-96	14:56	15.334	31-Dec-96	15:24	1.167
31-Dec-96	14:57	15.167	31-Dec-96	15:25	1.500

Bold indicates flaring episode.

Avg. waste gas flow during flaring episode = 13.817 Mscf/hr

Net avg. acid gas flow during flaring episode = $13.817 - 2.333 = 11.484$ Mscf/hr



Free

Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

5-D-1-4

February 4, 1997

Certified Mail
P 878 312 686

RECEIVED

FEB 10 1997

Air & Toxics Division
U.S. EPA, Region 9

Chemical Emergency Planning
& Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

Subject: Section 304 Reports, OES Control No. 97-0501

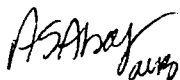
Dear Sir or Madam:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form" pertaining to the February 2, 1997 release of sulfur dioxide from the Area 3 Flare.

TRMI made initial notification to the Office of Emergency Services of a potentially reportable release of sulfur dioxide on February 3, 1997, based on the best available information at the time. However, please note that since the initial notification was made, TRMI has further determined that the release of sulfur dioxide was below the reportable release quantity of 500 pounds.

If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,


A. S. Abay

Enclosure

c: JAWenker - UCP
Kern County Environmental Health (LEPC)
Kern County Hazmat Response (RMP)
Mr. David Howecamp - USEPA
AMBurke, LGDavis, DABeck, EXSekiguchi, BkP

EXS/rec
File: 34040-104
q:\exs\0202_dcu.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
3663 Gibson Street
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita M. Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released: Sulfur Dioxide CAS # 7446-09-5

Extremely Hazardous: Yes

Contamination Pathway: Air

Physical State Stored: Gas

Physical State Released: Gas

Date/Time of Release: 02/02/97 03:00 PM

Duration of Release: 0 Days 4 Hours 0 Minutes

Quantity Released: 172.9 lbs.

NOTIFICATIONS

Agency	Notification Date/Time	Control Number	Agency Contact Person
National Response Center	NA		
Office of Emergency Services	02/03/97 07:35 PM	97-0501	Bill Pennington
Dept. of Environmental Health	02/03/97 07:45 PM	NA	Marty Brownfield

TRMI submitted a Breakdown Report to the SJVUAPCD: Yes

CAUSE OF RELEASE AND ACTIONS TAKEN

Start-up of Delayed Coker Unit (DCU) after shutdown to repair crack in fractionator.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Gas is irritating to the eyes, nose and throat, and has an irritating odor. Exposure to high concentrations can result in pulmonary edema. There were no known health effects resulting from this release. TRMI has no information to indicate that any individuals were exposed to irritating concentrations.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Give immediate respiratory attention. TRMI has no information to indicate that any individuals were exposed or required medical attention.

COMMENTS

Emergency variance was submitted to SJVUAPCD.

Initial notification was based on best available information which indicated the sulfur dioxide release was greater than the reportable quantity of 500 lbs. However, subsequent information revealed that the actual sulfur dioxide release was below the reportable quantity.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type) Anita M. Burke for TRMI Bakersfield Plant

Signature of Reporting Facility Representative Anita M. Burke for TRMI Bakersfield Plant Date 2-6-97

Estimation of SO₂ Emissions During Acid Gas Flaring Episode
2/2/97 Area 3 DCU Start-Up

Acid gas flow to flare (TAG Nos. 35F397 and 36F391) from 15:00 to 16:00:

V_{ag} = acid gas flow rate, Mscf/hr

V_{ag} = 4.823 Mscf/hr

Assumptions:

- All waste gas flow to flare is acid gas (worst case scenario)
- H₂S completely combusts to SO₂ (1:1 mole ratio of H₂S:SO₂)

Lab analysis of startup gas to flare:

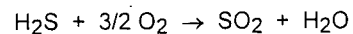
- H₂S content of gas sent to flare is 5.74 percent (57,400 ppm)

Molar H₂S rate of acid gas to flare:

$$\dot{n}_{H_2S} = (57,400 \text{ ft}^3/1 \times 10^6 \text{ ft}^3)(4.823 \text{ Mscf/hr})(1,000 \text{ ft}^3/\text{Mscf})(1 \text{ mole}/359 \text{ ft}^3)(1 \text{ hr}/60 \text{ min})$$

$$\dot{n}_{H_2S} = 0.013 \text{ moles/min}$$

Stoichiometric equation for the combustion of H₂S:



Therefore, from stoichiometry (1:1 H₂S:SO₂ ratio) and assuming complete combustion of H₂S, mass rate of SO₂ is:

$$\dot{m}_{SO_2} = (0.013 \text{ moles } H_2S/\text{min})(1 \text{ mole } SO_2/1 \text{ mol } H_2S)(64.1 \text{ lb } SO_2/\text{lbmol } SO_2)$$

$$\therefore \dot{m}_{SO_2} = 0.82 \text{ lb/min}$$

$$\text{Gross } SO_2 \text{ released during flaring (15:00 ~ 16:00)} = 0.82 \text{ lb/min} \times 60 \text{ min} = 49.4 \text{ lb}$$

$$\text{Net } SO_2 \text{ released (less 25.0 } SO_2 \text{ bubble limit)} = 24.4 \text{ lb}$$

See accompanying summary table for other hourly periods.

02-02-97 DCU Start-up Flaring Summary for SO₂ Emissions

Time Period	(35F397) Acid Gas Rate, Mscf/hr	(36F391) Acid Gas Rate, Mscf/hr	Total Acid Gas Rate, Mscf/hr	Gross SO ₂ Emissions, lbs	Net* SO ₂ Emissions, lbs
15:00 ~ 16:00	4.823	0	4.823	49.4	24.4
16:00 ~ 17:00	4.828	0	4.828	49.5	24.5
17:00 ~ 18:00	9.507	0	9.507	97.4	72.4
18:00 ~ 19:00	7.465	0	7.465	76.5	51.5
Total SO ₂ Released, lbs				272.9	172.9

* Net SO₂ emission are gross SO₂ emissions less 25.0 lb/hr Area 3 SO₂ bubble limit.



Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

Certified Mail
P 878 312 694

March 3, 1997

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

Subject: **Section 304 Reports, OES Control No. 970846**

Dear Sir or Madam:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form" pertaining to the January 27, 1997 reportable release of sulfur dioxide from the Area 3 Flare during the Delayed Coker Unit (DCU) shutdown.

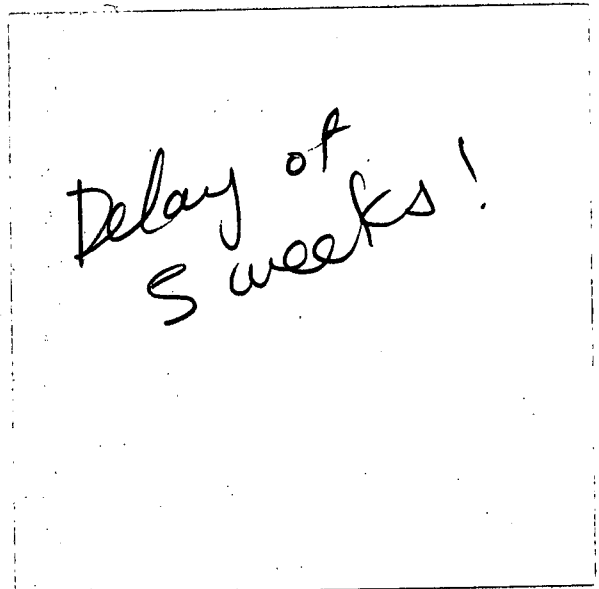
If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,


A. S. Abay

Enclosure

c: JAWenker - UCP
Kern County Environmental Health (LEPC)
Kern County Hazmat Response (RMP)
✓ Ms. Julie Anderson c/o Lauren Volpini
AMBurke-LGDavis-EXSekiguchi - BkP



EXS/rec
File: 34040-104
q:\exs\0127_304.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
3663 Gibson Street
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita M. Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released: Sulfur Dioxide CAS # 7446-09-5

Extremely Hazardous: Yes

Contamination Pathway: Air

Physical State Stored: Gas

Physical State Released: Gas

Date/Time of Release: 01/27/97 07:00 PM

Duration of Release: 0 Days 4 Hours 0 Minutes

Quantity Released: 861.2 lbs.

NOTIFICATIONS

Agency	Notification Date/Time	Control Number	Agency Contact Person
National Response Center	02/27/97 08:30 AM	378303	Petty Officer Garneau
Office of Emergency Services	02/27/97 08:45 AM	970846	Dacia Young
Dept. of Environmental Health	02/27/97 09:55 AM	NA	Marty Brownfield

TRMI submitted a Breakdown Report to the SJVUAPCD: Yes

CAUSE OF RELEASE AND ACTIONS TAKEN

The Delayed Coker Unit (DCU) was shutdown to repair a crack in the fractionator. Consequently, acid gas was diverted to the flare to bring the unit down safely.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Gas is irritating to the eyes, nose and throat, and has an irritating odor. Exposure to high concentrations can result in pulmonary edema. There were no known health effects resulting from this release. TRMI has no information to indicate that any individuals were exposed to irritating concentrations.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Give immediate respiratory attention. TRMI has no information to indicate that any individuals were exposed or required medical attention.

COMMENTS

Emergency variance was submitted to SJVUAPCD.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type) Anita M. Burke for TRMI Bakersfield Plant

Signature of Reporting Facility Representative Anita M. Burke for TRMI Bakersfield Plant Date 3.5.97



GOVERNOR'S OFFICE OF
EMERGENCY SERVICES
Hazardous Materials Spill Report

DATE: 02/03/97 TIME: 1939	RECEIVED BY: Bill Pennington	CONTROL#: 97-0501
------------------------------	---------------------------------	----------------------

1. PERSON NOTIFYING GOVERNOR'S OES:

a. NAME: Eugene Sekiguchi b. AGENCY: Texaco Refining c. PHONE#: 805 326 4200 d. Ext: e. PAG/CELL:

2. RESPONSIBLE PARTY:

a. NAME: Eugene Sekiguchi b. AGENCY: Texaco Refining c. PHONE#: 805 326 4200 d. EXT.:
d. INCIDENT LOCATION: 3663 Gibson St
e. CITY: Bakersfield f. COUNTY: Kern County g. ZIP: 93308
h. MAIL ADDRESS: PO Box 1476 i. CITY: Bakersfield j. STATE: CA k. ZIP: 93302

3. SUBSTANCE TYPE:

a. SUBSTANCE:	b. QTY: > = <	Amount	Measure	c. TYPE:	d. OTHER:
1. sulfur dioxide	>	500	Lbs.	CHEMICAL	
2.	=				
3.	=				
4.	=				

e. DESCRIPTION: Cocking unit coming up from repairs in start up mode, a standard procedure

f. CONTAINED: Yes g. WATER INVOLVED: No h. WATERWAY:

4. INCIDENT SUMMARY:

a. DATE: 02/02/97 TIME (Military): 1500 b. SITE: Refinery
c. INJURIES#: 0 d. FATALS #: 0 e. EVACS #: 0

5. NOTIFICATION INFORMATION:

a. NRC#: b. ON SCENE:
c. OTHER ON SCENE: d. OTHER NOTIFIED:
e. ADMIN. AGENCY: Bakersfield Fire Department f. SEC. AGENCY: Kern County Fire Department

g. NOTIFICATION LIST:

DOG Unit: 4			RWQCB Unit: 5B		
<input checked="" type="checkbox"/> AA/CUPA	<input checked="" type="checkbox"/> DFG-OSPR	<input type="checkbox"/> EMSA	<input type="checkbox"/> OES PLANS UNIT	<input checked="" type="checkbox"/> RWQCB	<input checked="" type="checkbox"/> USFWS
<input type="checkbox"/> AIR RESOURCES BD	<input type="checkbox"/> DHS-D.O.	<input type="checkbox"/> FEMA	<input type="checkbox"/> OES REG	<input checked="" type="checkbox"/> SPM	<input type="checkbox"/> OTHER
<input type="checkbox"/> CALTRANS	<input checked="" type="checkbox"/> DOG	<input type="checkbox"/> FOOD & AG	<input type="checkbox"/> OSHA	<input type="checkbox"/> US EPA	
<input type="checkbox"/> CDF	<input checked="" type="checkbox"/> DTSC	<input type="checkbox"/> LANDS	<input type="checkbox"/> PARKS & REC	<input type="checkbox"/> USMMS	
<input type="checkbox"/> COASTAL.COM	<input type="checkbox"/> EB PARKS	<input type="checkbox"/> OES HAZMATUNIT	<input type="checkbox"/> PUC	<input type="checkbox"/> USCG	

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

of pages: 1

To: LAUREN Volpini	From: Lloyd
Dept./Agency: FED EPA	Phone #:
Fax #: 415-744-1917	Fax #:

GENERAL SERVICES ADMINISTRATION



Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

March 5, 1997

Certified Mail
P 878 312 693

Chemical Emergency Planning
& Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

Subject: Section 304 Reports, OES Control No. 97-0501

Dear Sir or Madam:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, transmitted a "Emergency Release Follow-up Notice Reporting Form" on February 4, 1997, pertaining to the February 2, 1997, release of sulfur dioxide from the Area 3 Flare during the start-up of the Delayed Coker Unit (DCU).

TRMI made initial notification to the Office of Emergency Services of a potentially reportable release of sulfur dioxide on February 3, 1997. In the February 4, 1997, follow-up report, TRMI stated that the release of sulfur dioxide was below the reportable release quantity of 500 pounds, based on the best available information at the time. However, upon further investigation of the DCU start-up, TRMI has determined that the release of sulfur dioxide was indeed greater than the reportable release quantity of 500 pounds.

If you have any questions regarding this form, please contact Ms. Linda Davis at (805) 326-4522.

Sincerely,

AS Abay
A. S. Abay

Enclosure

c: JAWenker - UCP
Kern County Environmental Health (LEPC)
Kern County Hazmat Response (RMP)
Ms. Julie Anderson c/o Lauren Volpini
AMBurke-LGDavis-EXSekiguchi-BkP

EXS/rec
File: 34040-104
q:\exs\0202_dc2.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
3663 Gibson Street
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita M. Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released: Sulfur Dioxide CAS # 7446-09-5

Extremely Hazardous: Yes

Contamination Pathway: Air

Physical State Stored: Gas

Physical State Released: Gas

Date/Time of Release: 02/02/97 03:00 PM

Duration of Release: 0 Days 4 Hours 0 Minutes

Quantity Released: 3,508 lbs.

NOTIFICATIONS

Agency	Notification Date/Time	Control Number	Agency Contact Person
National Response Center	NA		
Office of Emergency Services	02/03/97 07:35 PM	97-0501	Bill Pennington
Dept. of Environmental Health	02/03/97 07:45 PM	NA	Marty Brownfield

TRMI submitted a Breakdown Report to the SJVUAPCD: Yes

CAUSE OF RELEASE AND ACTIONS TAKEN

Start-up of Delayed Coker Unit (DCU) after shutdown to repair crack in fractionator.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Gas is irritating to the eyes, nose and throat, and has an irritating odor. Exposure to high concentrations can result in pulmonary edema. There were no known health effects resulting from this release. TRMI has no information to indicate that any individuals were exposed to irritating concentrations.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Give immediate respiratory attention. TRMI has no information to indicate that any individuals were exposed or required medical attention.

COMMENTS

Emergency variance was submitted to SJVUAPCD.

Initial notification was based on best available information which indicated the sulfur dioxide release was greater than the reportable quantity of 500 lbs. Subsequent information appeared to indicate that the actual sulfur dioxide release was below the reportable quantity. However, final information revealed that the actual sulfur dioxide release was greater than the reportable quantity.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type) Anita M. Burke for TRMI Bakersfield Plant

Signature of Reporting Facility Representative Anita M. Burke for TRMI Bakersfield Plant Date 3-6-97

Estimation of SO₂ Emissions During Acid Gas Flaring Episode
2/2/97 Area 3 DCU Start-Up

Acid gas flow to flare (TAG Nos. 35F397 and 36F391) from 15:00 to 16:00:

V_{ag} = acid gas flow rate, Mscf/hr

V_{ag} = 4.8 Mscf/hr

Assumptions:

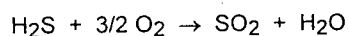
- All waste gas flow to flare is acid gas (worst case scenario)
- H₂S completely combusts to SO₂ (1:1 mole ratio of H₂S:SO₂)
- H₂S content of gas sent to flare is 802,000 ppm

Molar H₂S rate of acid gas to flare:

$$n_{H_2S} = (802,000 \text{ ft}^3/1 \times 10^6 \text{ ft}^3)(4.8 \text{ Mscf/hr})(1,000 \text{ ft}^3/\text{Mscf})(1 \text{ mole}/379 \text{ ft}^3)(1 \text{ hr}/60 \text{ min})$$

$$n_{H_2S} = 0.169 \text{ moles/min}$$

Stoichiometric equation for the combustion of H₂S:



Therefore, from stoichiometry (1:1 H₂S:SO₂ ratio) and assuming complete combustion of H₂S, mass rate of SO₂ is:

$$m_{SO_2} = (0.169 \text{ moles H}_2\text{S/min})(1 \text{ mole SO}_2/1 \text{ mol H}_2\text{S})(64.1 \text{ lb SO}_2/\text{lbmol SO}_2)$$

$$\therefore m_{SO_2} = 10.85 \text{ lb/min}$$

$$\text{Gross SO}_2 \text{ released during flaring (15:00 ~ 16:00)} = 10.85 \text{ lb/min} \times 60 \text{ min} \quad 651.1 \text{ lb}$$

$$\text{Net SO}_2 \text{ released (less 25.0 SO}_2 \text{ bubble limit)} = \quad 626.1 \text{ lb}$$

See accompanying summary table for other hourly periods.

02-02-97 DCU Start-up Flaring Summary for SO₂ Emissions

Time Period	(35F397) Acid Gas Rate, Mscf/hr	(36F391) Acid Gas Rate, Mscf/hr	Total Acid Gas Rate, Mscf/hr	Gross SO ₂ Emissions, lbs	Net* SO ₂ Emissions, lbs
15:00 ~ 16:00	4.8	0	4.8	651.1	626.1
16:00 ~ 17:00	4.8	0	4.8	651.1	626.1
17:00 ~ 18:00	9.5	0	9.5	1288.6	1263.6
18:00 ~ 19:00	7.5	0	7.5	1017.3	992.3
Total SO ₂ Released, lbs				3,608	3,508

* Net SO₂ emission are gross SO₂ emissions less 25.0 lb/hr Area 3 SO₂ bubble limit.



Armand S Abay
Plant Manager
Bakersfield Plant

Texaco Refining &
Marketing Inc

Post Office Box 1476
Bakersfield CA 93302
805 326 4232

Certified Mail

P 878312654

September 11, 1997

Chemical Emergency Planning
and Response Commission (CEPRC)
2800 Meadowview Road
Sacramento, California 95832

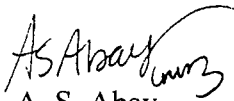
Subject: Section 304 Reports, OES Control No. 973407

Dear Sir or Madam:

As required by the Office of Emergency Services, Texaco Refining and Marketing, Inc. (TRMI), Bakersfield Plant, hereby transmits the enclosed "Emergency Release Follow-up Notice Reporting Form" pertaining to the September 2, 1997 reportable release of sulfur dioxide from the Area 3 Flare during a facility power outage.

If you have any questions regarding this form, please contact Mr. Ken Comey at (805) 326-4557.

Sincerely,


A. S. Abay

Enclosure

c: JAWenker - UCP

Mr. Marty Brownfield - Kern County Environmental Health (LEPC)

Kern County Hazmat Response (RMP)

Ms. Julie Anderson c/o Lauren Volpini CM P 878 312 537

KRComey, EXSekiguchi, CLTaylor, BkP

CLT

TRMI Central File#: 750,401
q:\clt\complan\9-02_304.doc

Emergency Release Follow-up Notice Reporting Form

FACILITY INFORMATION

Location of Release:

Texaco Refining and Marketing Inc.
Bakersfield Plant
3663 Gibson Street
Bakersfield, CA 93308

Facility Emergency Contact:

Ms. Anita M. Burke
Manager Environment, Health and Safety
Phone: (805) 326-4200

RELEASE INFORMATION

Name and CAS Number of Substance Released: Sulfur Dioxide CAS # 7446-09-5

Extremely Hazardous: Yes

Contamination Pathway: Air

Physical State Stored: Gas

Physical State Released: Gas

Date/Time of Release: 09/02/97 05:40 AM

Duration of Release: 0 Days 5 Hours 0 Minutes

Quantity Released: 2,644 lbs.

NOTIFICATIONS

Agency	Notification Date/Time	Control Number	Agency Contact Person
National Response Center	NA		
Office of Emergency Services	09/02/97 09:05 AM	97-3407	Chris Jensen
Dept. of Environmental Health	09/02/97 12:00 AM	NA	Marty Brownfield

TRMI submitted a Breakdown Report to the SJVUAPCD: Yes

CAUSE OF RELEASE AND ACTIONS TAKEN

Power failure in Area 3 caused the shutdown of process units. Process upset gas was flared, resulting in excess emissions of SO₂ from the flare. The units were restarted once the power was fully restored.

KNOWN OR ANTICIPATED HEALTH EFFECTS

Gas is irritating to the eyes, nose and throat, and has an irritating odor. Exposure to high concentrations can result in pulmonary edema. There were no known health effects resulting from this release. TRMI has no information to indicate that any individuals were exposed to irritating concentrations.

ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS

Give immediate respiratory attention. TRMI has no information to indicate that any individuals were exposed or required medical attention.

COMMENTS

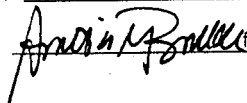
An Emergency Variance application was submitted to the SJVUAPCD. However, the application was withdrawn because compliance with all state and local operating requirements was achieved within 24 hours of the time of initial breakdown.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Reporting Facility Representative (print or type) Anita M. Burke for TRMI Bakersfield Plant

Signature of Reporting Facility Representative



for TRMI Bakersfield Plant

Date

9.15.97